

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp  
50 55 60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser  
65 70 75 80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val  
85 90 95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu  
100 105 110

Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His  
115 120 125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val  
130 135 140

Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro  
145 150 155 160

Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val  
165 170 175

His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr  
180 185 190

Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu  
195 200 205

Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser  
210 215 220

Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala  
225 230 235 240

Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val  
245 250 255

Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala  
260 265 270

Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala  
275 280 285

<210> 2172

<211> 613

<212> PRT

<213> Homo sapiens

<400> 2172

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu  
1 5 10 15

Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val  
20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser  
1428

35					40					45					
Cys	Asn	Val	Thr	Gly	Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp
	50					55					60				
Phe	Leu	Tyr	Arg	Pro	Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser
65					70					75					80
Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val
				85					90					95	
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu
			100					105					110		
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His
		115					120					125			
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val
	130					135					140				
Glu	Leu	Arg	Val	Leu	Pro	Asp	Val	Leu	Gln	Val	Ser	Ala	Ala	Pro	Pro
145					150					155					160
Gly	Pro	Arg	Gly	Arg	Gln	Ala	Pro	Thr	Ser	Pro	Pro	Arg	Met	Thr	Val
				165					170					175	
His	Glu	Gly	Gln	Glu	Leu	Ala	Leu	Gly	Cys	Leu	Ala	Arg	Thr	Ser	Thr
			180					185					190		
Gln	Lys	His	Thr	His	Leu	Ala	Val	Ser	Phe	Gly	Arg	Ser	Val	Pro	Glu
		195					200					205			
Ala	Pro	Val	Gly	Arg	Ser	Thr	Leu	Gln	Glu	Val	Val	Gly	Ile	Arg	Ser
	210					215					220				
Asp	Leu	Ala	Val	Glu	Ala	Gly	Ala	Pro	Tyr	Ala	Glu	Arg	Leu	Ala	Ala
225					230					235					240
Gly	Glu	Leu	Arg	Leu	Gly	Lys	Glu	Gly	Thr	Asp	Arg	Tyr	Arg	Met	Val
				245					250					255	
Val	Gly	Gly	Ala	Gln	Ala	Gly	Asp	Ala	Gly	Thr	Tyr	His	Cys	Thr	Ala
			260					265					270		
Ala	Glu	Trp	Ile	Gln	Asp	Pro	Asp	Gly	Ser	Trp	Ala	Gln	Ile	Ala	Glu
		275					280					285			
Lys	Arg	Ala	Val	Leu	Ala	His	Val	Asp	Val	Gln	Thr	Leu	Ser	Ser	Gln
	290					295					300				
Leu	Ala	Val	Thr	Val	Gly	Pro	Gly	Glu	Arg	Arg	Ile	Gly	Pro	Gly	Glu
305					310					315					320
Pro	Leu	Glu	Leu	Leu	Cys	Asn	Val	Ser	Gly	Ala	Leu	Pro	Pro	Ala	Gly
				325					330					335	
Arg	His	Ala	Ala	Tyr	Ser	Val	Gly	Trp	Glu	Met	Ala	Pro	Ala	Gly	Ala
			340					345					350		
Pro	Gly	Pro	Gly	Arg	Leu	Val	Ala	Gln	Leu	Asp	Thr	Glu	Gly	Val	Gly

355	360	365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val		
370	375	380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp		
385	390	395
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly		
	405	410
		415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val		
	420	425
		430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala		
	435	440
		445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile		
	450	455
		460
Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp		
465	470	475
		480
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu		
	485	490
		495
Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro		
	500	505
		510
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg		
	515	520
		525
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys		
	530	535
		540
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala		
545	550	555
		560
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala		
	565	570
		575
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu		
	580	585
		590
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys		
	595	600
		605
Arg Leu Arg Lys Arg		
610		

<210> 2173  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 2173  
 Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val  
 1 5 10 15

Phe Ile Tyr Leu Tyr Met Gly Leu Tyr Ile Val Leu Trp Gly Met Gly  
                   20                                  25                                  30  
 Glu Pro Ala Gly Gly Glu Asn Pro Pro Leu Ser Pro His Pro Pro Gly  
                   35                                  40                                  45  
 Arg Ala Asn Val Lys Leu Leu Ile Phe Val Leu Tyr Ile Phe Tyr Ile  
                   50                                  55                                  60  
 Asn Ile Ser Ile Phe Phe Leu Gln Asn Gln Phe Ile Asn Gly Arg Gly  
                   65                                  70                                  75                                  80  
 Val Trp Gly Gly His Met Glu Leu Pro Leu Trp Gly Gly Pro Leu His  
                                   85                                  90                                  95  
 Tyr Pro Thr Tyr Arg Pro Phe Pro His Pro Pro Pro His Ser Pro Pro  
                   100                                  105                                  110  
 Pro Gly Cys Asp Cys Cys Lys Met Gly Val  
                   115                                  120

<210> 2174

<211> 613

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (507)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2174

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu  
   1                                  5                                  10                                  15  
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val  
                   20                                  25                                  30  
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser  
                   35                                  40                                  45  
 Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp  
                   50                                  55                                  60  
 Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser  
                   65                                  70                                  75                                  80  
 Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val  
                                   85                                  90                                  95  
 Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu  
                   100                                  105                                  110  
 Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His  
                   115                                  120                                  125  
 Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val

1431

0993346-042360

130		135		140	
Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro					
145		150		155	160
Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val					
	165		170		175
His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr					
	180		185		190
Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu					
	195		200		205
Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser					
	210		215		220
Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala					
225		230		235	240
Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val					
	245		250		255
Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala					
	260		265		270
Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu					
	275		280		285
Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln					
	290		295		300
Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu					
305		310		315	320
Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly					
	325		330		335
Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala					
	340		345		350
Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly					
	355		360		365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val					
	370		375		380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp					
385		390		395	400
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly					
	405		410		415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val					
	420		425		430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala					
	435		440		445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile					

450 455 460

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp  
 465 470 475 480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu  
 485 490 495

Val Gly Gly Val Gly Gln Asp Gly Val Ala Xaa Leu Gly Val Arg Pro  
 500 505 510

Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg  
 515 520 525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys  
 530 535 540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala  
 545 550 555 560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala  
 565 570 575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu  
 580 585 590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys  
 595 600 605

Arg Leu Arg Lys Arg  
 610

<210> 2175  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 2175

Met Ala Trp Ala Val Thr Leu Ile Leu Ser Leu Ser Arg Ala Val Arg  
 1 5 10 15

Thr Gln Glu Val Pro Met Ala Leu Gln Ala His Ser Gly Ile Gln Leu  
 20 25 30

Ala Ser Arg Val Gly Leu Pro Gly Pro Trp Pro Glu Cys Ser Thr Leu  
 35 40 45

Ser Ser Arg Cys His Leu Ser Met Asp Ser Lys Val  
 50 55 60

<210> 2176  
 <211> 396  
 <212> PRT  
 <213> Homo sapiens

<400> 2176

Met	Trp	Trp	Leu	Leu	Leu	Trp	Gly	Val	Leu	Gln	Ala	Cys	Pro	Thr	Arg	1	5	10	15
Gly	Ser	Val	Leu	Leu	Ala	Gln	Glu	Leu	Pro	Gln	Gln	Leu	Thr	Ser	Pro	20	25	30	
Gly	Tyr	Pro	Glu	Pro	Tyr	Gly	Lys	Gly	Gln	Glu	Ser	Ser	Thr	Asp	Ile	35	40	45	
Lys	Ala	Pro	Glu	Gly	Phe	Ala	Val	Arg	Leu	Val	Phe	Gln	Asp	Phe	Asp	50	55	60	
Leu	Glu	Pro	Ser	Gln	Asp	Cys	Ala	Gly	Asp	Ser	Val	Thr	Ile	Ser	Phe	65	70	75	80
Val	Gly	Ser	Asp	Pro	Ser	Gln	Phe	Cys	Gly	Gln	Gln	Gly	Ser	Pro	Leu	85	90	95	
Gly	Arg	Pro	Pro	Gly	Gln	Arg	Glu	Phe	Val	Ser	Ser	Gly	Arg	Ser	Leu	100	105	110	
Arg	Leu	Thr	Phe	Arg	Thr	Gln	Pro	Ser	Ser	Glu	Asn	Lys	Thr	Ala	His	115	120	125	
Leu	His	Lys	Gly	Phe	Leu	Ala	Leu	Tyr	Gln	Thr	Val	Ala	Val	Asn	Tyr	130	135	140	
Ser	Gln	Pro	Ile	Ser	Glu	Ala	Ser	Arg	Gly	Ser	Glu	Ala	Ile	Asn	Ala	145	150	155	160
Pro	Gly	Asp	Asn	Pro	Ala	Lys	Val	Gln	Asn	His	Cys	Gln	Glu	Pro	Tyr	165	170	175	
Tyr	Gln	Ala	Ala	Ala	Ala	Gly	Ala	Leu	Thr	Cys	Ala	Thr	Pro	Gly	Thr	180	185	190	
Trp	Lys	Asp	Arg	Gln	Asp	Gly	Glu	Glu	Val	Leu	Gln	Cys	Met	Pro	Val	195	200	205	
Cys	Gly	Arg	Pro	Val	Thr	Pro	Ile	Ala	Gln	Asn	Gln	Thr	Thr	Leu	Gly	210	215	220	
Ser	Ser	Arg	Ala	Lys	Leu	Gly	Asn	Phe	Pro	Trp	Gln	Ala	Phe	Thr	Ser	225	230	235	240
Ile	His	Gly	Arg	Gly	Gly	Gly	Ala	Leu	Leu	Gly	Asp	Arg	Trp	Ile	Leu	245	250	255	
Thr	Ala	Ala	His	Thr	Ile	Tyr	Pro	Lys	Asp	Ser	Val	Ser	Leu	Arg	Lys	260	265	270	
Asn	Gln	Ser	Val	Asn	Val	Phe	Leu	Gly	His	Thr	Ala	Ile	Asp	Glu	Met	275	280	285	
Leu	Lys	Leu	Gly	Asn	His	Pro	Val	His	Arg	Val	Val	Val	His	Pro	Asp	290	295	300	
Tyr	Arg	Gln	Asn	Glu	Ser	His	Asn	Phe	Ser	Gly	Asp	Ile	Ala	Leu	Leu	305	310	315	320

Glu Leu Gln His Ser Ile Pro Leu Gly Pro Asn Val Leu Pro Val Cys  
 325 330 335  
 Leu Pro Asp Asn Glu Thr Leu Tyr Arg Ser Gly Leu Leu Gly Tyr Val  
 340 345 350  
 Ser Gly Phe Gly Met Glu Met Gly Trp Leu Thr Thr Glu Leu Lys Tyr  
 355 360 365  
 Ser Arg Leu Pro Val Ala Pro Arg Glu Ala Cys Asn Ala Trp Leu Gln  
 370 375 380  
 Lys Arg Gln Arg Pro Glu Lys Lys Lys Lys Lys Lys  
 385 390 395

<210> 2177  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<400> 2177  
 Gly Thr Arg Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser  
 1 5 10 15  
 Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln  
 20 25 30  
 Ser Leu Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro  
 35 40 45  
 Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro  
 50 55 60  
 Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro  
 65 70 75 80  
 Val Gly Ala Gly Thr Ala Ala Pro Ala Pro Ser Gln Thr Pro Gly Ser  
 85 90 95  
 Ala Pro Pro Pro Gln Ala Gln Gly Pro Pro Tyr Pro Thr Tyr Pro Gly  
 100 105 110  
 Tyr Pro Gly Tyr Cys Gln Met Pro Met Pro Met Gly Tyr Asn Pro Tyr  
 115 120 125  
 Ala Tyr Gly Gln Tyr Asn Met Pro Tyr Pro Pro Val Tyr His Gln Ser  
 130 135 140  
 Pro Gly Gln Ala Pro Tyr Pro Gly Pro Gln Gln Pro Ser Tyr Pro Phe  
 145 150 155 160  
 Pro Gln Pro Pro Gln Gln Ser Tyr Tyr Pro Gln Gln  
 165 170

<210> 2178  
 <211> 142



```

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2178
Met His Gln Leu Leu Gln Leu Gln Arg Gln Glu Pro Cys Arg Leu Leu
  1           5           10           15

Ser Pro Ser Pro Gln Pro Gly Leu His His Leu Cys Phe Gln Gln Ile
      20           25           30

Glu Leu Leu Leu Leu Leu Leu His Leu Gln Trp Gly Leu Gly Leu Leu
      35           40           45

Arg Gln Leu His His Lys Arg Leu Ala Gln Leu Leu Leu His Arg Arg
      50           55           60

Arg Asp His Pro Ile Pro Pro Ile Gln Asp Ile Leu Gly Ile Ala Lys
      65           70           75           80

Cys Pro Cys Pro Trp Ala Ile Ile Leu Met Arg Met Ala Ser Ile Ile
      85           90           95

Cys His Ile His Gln Cys Ile Thr Arg Val Leu Asp Arg Leu Xaa Thr
      100           105           110

Arg Asp Pro Ser Ser Leu His Thr Pro Ser Leu Ser Pro His Ser Ser
      115           120           125

Leu Thr Ile His Ser Ser Asn Met Ser Ala Gln Gln Leu Ser
      130           135           140

```

```
<210> 2179
<211> 868
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (550)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 2179  
Met Ala Thr Phe Ile Ser Val Gln Leu Lys Lys Thr Ser Glu Val Asp

1	5	10	15
Leu Ala Lys Pro	Leu Val Lys Phe	Ile Gln Gln Thr Tyr	Pro Ser Gly
20		25	30
Gly Glu Glu Gln	Ala Gln Tyr Cys	Arg Ala Ala Glu	Glu Leu Ser Lys
35	40		45
Leu Arg Arg Ala	Ala Val Gly Arg	Pro Leu Asp Lys	His Glu Gly Ala
50	55		60
Leu Glu Thr Leu	Leu Arg Tyr Tyr	Asp Gln Ile Cys	Ser Ile Glu Pro
65	70	75	80
Lys Phe Pro Phe	Ser Glu Asn Gln	Ile Cys Leu Thr	Phe Thr Trp Lys
	85	90	95
Asp Ala Phe Asp	Lys Gly Ser Leu	Phe Gly Gly Ser	Val Lys Leu Ala
100		105	110
Leu Ala Ser Leu	Gly Tyr Glu Lys	Ser Cys Val Leu	Phe Asn Cys Ala
115	120		125
Ala Leu Ala Ser	Gln Ile Ala Ala	Glu Gln Asn Leu	Asp Asn Asp Glu
130	135		140
Gly Leu Lys Ile	Ala Ala Lys His	Tyr Gln Phe Ala	Ser Gly Ala Phe
145	150	155	160
Leu His Ile Lys	Glu Thr Val Leu	Ser Ala Leu Ser	Arg Glu Pro Thr
	165	170	175
Val Asp Ile Ser	Pro Asp Thr Val	Gly Thr Leu Ser	Leu Ile Met Leu
	180	185	190
Ala Xaa Ala Gln	Glu Val Phe Phe	Leu Lys Ala Thr	Arg Asp Lys Met
195	200		205
Lys Asp Ala Ile	Ile Ala Lys Leu	Ala Asn Gln Ala	Ala Asp Tyr Phe
210	215	220	
Gly Asp Ala Phe	Lys Gln Cys Gln	Tyr Lys Asp Thr	Leu Pro Lys Glu
225	230	235	240
Val Phe Pro Val	Leu Ala Ala Lys	His Cys Ile Met	Gln Ala Asn Ala
	245	250	255
Glu Tyr His Gln	Ser Ile Leu Ala	Lys Gln Gln Lys	Lys Phe Gly Glu
	260	265	270
Glu Ile Ala Arg	Leu Gln His Ala	Ala Ala Glu Leu	Ile Lys Thr Val
	275	280	285
Ser Arg Tyr Asp	Glu Tyr Val Asn	Val Lys Asp Phe	Ser Asp Lys Ile
290	295	300	
Asn Arg Ala Leu	Xaa Ala Ala Lys	Lys Asp Asn Asp	Phe Ile Tyr His
305	310	315	320
Asp Arg Val Pro	Asp Leu Lys Asp	Leu Asp Pro Ile	Gly Lys Ala Thr

325								330					335			
Leu	Val	Lys	Ser 340	Thr	Pro	Val	Asn 345	Val	Pro	Ile	Ser	Gln	Lys 350	Phe	Thr	
Asp	Leu	Phe 355	Glu	Lys	Met	Val	Pro 360	Val	Ser	Val	Gln	Gln 365	Ser	Leu	Ala	
Ala	Tyr 370	Asn	Gln	Arg	Lys	Ala 375	Asp	Leu	Val	Asn	Arg 380	Ser	Ile	Ala	Gln	
Met 385	Arg	Glu	Ala	Thr	Thr 390	Leu	Ala	Asn	Gly	Val 395	Leu	Ala	Ser	Leu	Asn 400	
Leu	Pro	Ala	Ala	Ile 405	Glu	Asp	Val	Ser	Gly 410	Asp	Thr	Val	Pro	Gln 415	Ser	
Ile	Leu	Thr 420	Lys	Ser	Arg	Ser	Val 425	Ile	Glu	Gln	Gly	Gly 430	Ile	Gln	Thr	
Val	Asp	Gln 435	Leu	Ile	Lys	Glu	Leu 440	Pro	Glu	Leu	Leu	Gln 445	Arg	Asn	Arg	
Glu 450	Ile	Leu	Asp	Glu	Ser	Leu 455	Arg	Leu	Leu	Asp	Glu 460	Glu	Glu	Ala	Thr	
Asp 465	Asn	Asp	Leu	Arg	Ala 470	Lys	Phe	Lys	Glu	Arg 475	Trp	Gln	Arg	Thr	Pro 480	
Ser	Asn	Glu	Leu	Tyr 485	Lys	Pro	Leu	Arg	Ala 490	Glu	Gly	Thr	Asn	Phe 495	Arg	
Thr	Val	Leu	Asp 500	Lys	Ala	Val	Gln 505	Ala	Asp	Gly	Gln	Val	Lys 510	Glu	Cys	
Tyr	Gln 515	Ser	His	Arg	Asp	Thr	Ile 520	Val	Leu	Leu	Cys	Lys 525	Pro	Glu	Pro	
Glu 530	Leu	Asn	Ala	Ala	Ile	Pro 535	Ser	Ala	Asn	Pro	Ala 540	Lys	Thr	Met	Gln	
Gly 545	Ser	Glu	Val	Val	Xaa 550	Val	Leu	Lys	Ser	Leu 555	Leu	Ser	Asn	Leu	Asp 560	
Glu	Val	Lys	Lys	Glu 565	Arg	Glu	Gly	Leu	Glu 570	Asn	Asp	Leu	Lys	Ser 575	Val	
Asn	Phe	Asp	Met 580	Thr	Ser	Lys	Phe 585	Leu	Thr	Ala	Leu	Ala	Gln 590	Asp	Gly	
Val	Ile 595	Asn	Glu	Glu	Ala	Leu	Ser 600	Val	Thr	Glu	Leu	Asp 605	Arg	Val	Tyr	
Gly 610	Gly	Leu	Thr	Thr	Lys	Val 615	Gln	Glu	Ser	Leu	Lys 620	Lys	Gln	Glu	Gly	
Leu 625	Leu	Lys	Asn	Ile	Gln 630	Val	Ser	His	Gln	Glu 635	Phe	Ser	Lys	Met	Lys 640	
Gln	Ser	Asn	Asn	Glu	Ala	Asn	Leu	Arg	Glu	Glu	Val	Leu	Lys	Asn	Leu	





[illegible]

```
<210> 2183
<211> 239
<212> PRT
<213> Homo sapiens
```

Met	Ala	Tyr	Gln	Ser	Leu	Arg	Leu	Glu	Tyr	Leu	Gln	Ile	Pro	Pro	Val
1				5					10					15	
Ser	Arg	Ala	Tyr	Thr	Thr	Ala	Cys	Val	Leu	Thr	Thr	Ala	Ala	Val	Gln
			20					25					30		
Leu	Glu	Leu	Ile	Thr	Pro	Phe	Gln	Leu	Tyr	Phe	Asn	Pro	Glu	Leu	Ile
		35					40					45			
Phe	Lys	His	Phe	Gln	Ile	Trp	Arg	Leu	Ile	Thr	Asn	Phe	Leu	Phe	Phe
	50					55					60				
Gly	Pro	Val	Gly	Phe	Asn	Phe	Leu	Phe	Asn	Met	Ile	Phe	Leu	Tyr	Arg
65					70					75					80
Tyr	Cys	Arg	Met	Leu	Glu	Glu	Gly	Ser	Phe	Arg	Gly	Arg	Thr	Ala	Asp
				85					90					95	
Phe	Val	Phe	Met	Phe	Leu	Phe	Gly	Gly	Phe	Leu	Met	Thr	Leu	Phe	Gly
			100					105					110		

Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu  
 115 120 125  
 Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe  
 130 135 140  
 Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly  
 145 150 155 160  
 Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile  
 165 170 175  
 Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln  
 180 185 190  
 Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile  
 195 200 205  
 Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu  
 210 215 220  
 Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly  
 225 230 235  
  
 <210> 2184  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 2184  
 Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala  
 1 5 10 15  
 Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val  
 20 25 30  
 Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro  
 35 40 45  
 Trp Val Leu Met Gly Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val  
 50 55 60  
 Asp Leu Leu Gly Ile Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp  
 65 70 75 80  
 Val Phe Pro Asn Gln Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser  
 85 90 95  
 Ile Leu Lys Ala Ile Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn  
 100 105 110  
 Pro Leu Pro Glu Glu Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln  
 115 120 125  
 Arg Leu Gly Gly  
 130





Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg  
 290 295 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly  
 305 310 315 320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu  
 325 330 335

Asp Asn Ala

<210> 2186

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2186

Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly  
 1 5 10 15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr  
 20 25 30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu  
 35 40 45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu  
 50 55 60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile  
 65 70 75 80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro  
 85 90 95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn  
 100 105 110

Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe  
 115 120 125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe  
 130 135 140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly  
 145 150 155 160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp  
 165 170 175

Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln  
 180 185 190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser  
 195 200 205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys  
210 215 220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala  
225 230 235 240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp  
245 250 255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu  
260 265 270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly  
275 280 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg  
290 295 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly  
305 310 315 320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu  
325 330 335

Asp Asn Ala

<210> 2187  
<211> 509  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (168)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (198)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (199)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (244)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (246)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (294)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (301)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (303)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (493)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (498)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (499)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (505)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2187  
Met Glu Glu Leu Ala Thr Glu Lys Glu Ala Glu Glu Ser His Arg Gln  
1 5 10 15  
Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Leu Thr Leu Thr Ile  
20 25 30  
Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu  
35 40 45  
Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg  
50 55 60  
Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr  
65 70 75 80  
Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys  
85 90 95  
Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn  
100 105 110

Ser	Val	Glu	Gln	Asn	Asp	Met	Leu	Arg	Lys	Val	Thr	Phe	Asp	Pro	Glu	115	120	125
Val	Phe	Phe	Asn	Ile	Leu	Leu	Pro	Pro	Ile	Ile	Phe	His	Ala	Gly	Tyr	130	135	140
Ser	Leu	Lys	Lys	Arg	His	Phe	Phe	Arg	Asn	Leu	Gly	Ser	Ile	Leu	Ala	145	150	155
Tyr	Ala	Phe	Leu	Gly	Thr	Ala	Xaa	Ser	Cys	Phe	Ile	Ile	Gly	Asn	Leu	165	170	175
Met	Tyr	Gly	Val	Val	Lys	Leu	Met	Lys	Ile	Met	Gly	Gln	Leu	Ser	Asp	180	185	190
Lys	Phe	Tyr	Tyr	Thr	Xaa	Xaa	Leu	Phe	Phe	Gly	Ala	Ile	Ile	Ser	Ala	195	200	205
Thr	Asp	Pro	Val	Thr	Val	Leu	Ala	Ile	Phe	Asn	Glu	Leu	His	Ala	Asp	210	215	220
Val	Asp	Leu	Tyr	Ala	Leu	Leu	Phe	Gly	Glu	Ser	Val	Leu	Asn	Asp	Ala	225	230	235
Val	Ala	Ile	Xaa	Leu	Xaa	Ser	Ser	Ile	Val	Ala	Tyr	Gln	Pro	Ala	Gly	245	250	255
Leu	Asn	Thr	His	Ala	Phe	Asp	Ala	Ala	Ala	Phe	Phe	Lys	Ser	Val	Gly	260	265	270
Ile	Phe	Leu	Gly	Ile	Phe	Ser	Gly	Ser	Phe	Thr	Met	Gly	Ala	Val	Thr	275	280	285
Gly	Val	Val	Thr	Ala	Xaa	Val	Thr	Lys	Phe	Thr	Lys	Xaa	His	Xaa	Phe	290	295	300
Pro	Leu	Leu	Glu	Thr	Ala	Leu	Phe	Phe	Leu	Met	Ser	Trp	Ser	Thr	Phe	305	310	315
Leu	Leu	Ala	Glu	Ala	Cys	Gly	Phe	Thr	Gly	Val	Val	Ala	Val	Leu	Phe	325	330	335
Cys	Gly	Ile	Thr	Gln	Ala	His	Tyr	Thr	Tyr	Asn	Asn	Leu	Ser	Val	Glu	340	345	350
Ser	Arg	Ser	Arg	Thr	Lys	Gln	Leu	Phe	Glu	Val	Leu	His	Phe	Leu	Ala	355	360	365
Glu	Asn	Phe	Ile	Phe	Ser	Tyr	Met	Gly	Leu	Ala	Leu	Phe	Thr	Phe	Gln	370	375	380
Lys	His	Val	Phe	Ser	Pro	Ile	Phe	Ile	Ile	Gly	Ala	Phe	Val	Ala	Ile	385	390	395
Phe	Leu	Gly	Arg	Ala	Ala	His	Ile	Tyr	Pro	Leu	Ser	Phe	Phe	Leu	Asn	405	410	415
Leu	Gly	Arg	Arg	His	Lys	Ile	Gly	Trp	Asn	Phe	Gln	His	Met	Met	Met	420	425	430

Phe Ser Gly Leu Arg Gly Ala Met Ala Phe Ala Leu Ala Ile Arg Asp  
           435                                  440                                  445  
 Thr Ala Ser Tyr Ala Arg Gln Met Met Phe Thr Thr Thr Leu Leu Ile  
           450                                  455                                  460  
 Val Phe Phe Thr Val Trp Ile Ile Gly Gly Gly Thr Thr Pro Met Leu  
           465                                  470                                  475                                  480  
 Ser Trp Leu Asn Ile Arg Val Gly Val Asp Pro Asp Xaa Asp Pro Pro  
                                   485                                  490                                  495  
 Pro Xaa Xaa Asp Ser Phe Ala Phe Xaa Thr Glu Thr Ala  
                                   500                                  505

<210> 2188  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 2188  
 Met Thr Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu  
   1                                  5                                  10                                  15  
 Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser  
                                   20                                  25                                  30  
 Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp  
                                   35                                  40                                  45  
 Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu  
                                   50                                  55                                  60  
 Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His  
                                   65                                  70                                  75                                  80  
 Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala  
                                   85                                  90                                  95  
 Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met  
                                   100                                  105                                  110  
 Ser Glu Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp  
                                   115                                  120                                  125  
 Asp Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser  
                                   130                                  135                                  140  
 Leu Gln  
 145

<210> 2189  
 <211> 530  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (488)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (490)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (494)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (495)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (505)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 2189  
 Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly  
   1                  5                  10                  15  
 Val His Cys Gln Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Gln  
                   20                  25                  30  
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe  
                   35                  40                  45  
 Ser Arg Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
                   50                  55                  60  
 Gln Trp Leu Ala Leu Val Leu His Asp Gly Gly Gln Lys Tyr Asn Glu  
   65                  70                  75                  80  
 Asp Val Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn  
                   85                  90                  95  
 Lys Val Tyr Leu Gln Met Asp Ser Leu Arg Gly Glu Asp Thr Ala Thr  
                   100                  105                  110  
 Tyr Tyr Cys Val Arg Gly Met Trp Glu Gln Leu Pro Ser Tyr Tyr Phe  
                   115                  120                  125  
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro  
   130                  135                  140  
 Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp  
  145                  150                  155                  160  
 Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu  
                   165                  170                  175

Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly	Gln	Gly	Val	Thr	Ala	Arg		
			180					185					190				
Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly	Asp	Leu	Tyr	Thr	Thr	Ser		
		195					200					205					
Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys	Leu	Ala	Gly	Lys	Ser	Val		
	210					215					220						
Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro	Ser	Gln	Asp	Val	Thr	Val		
225					230					235					240		
Pro	Cys	Pro	Val	Pro	Ser	Thr	Pro	Pro	Thr	Pro	Ser	Pro	Ser	Thr	Pro		
				245					250					255			
Pro	Thr	Pro	Ser	Pro	Ser	Cys	Cys	His	Pro	Arg	Leu	Ser	Leu	His	Arg		
			260					265					270				
Pro	Ala	Leu	Glu	Asp	Leu	Leu	Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys		
	275						280					285					
Thr	Leu	Thr	Gly	Leu	Arg	Asp	Ala	Ser	Gly	Val	Thr	Phe	Thr	Trp	Thr		
	290					295					300						
Pro	Ser	Ser	Gly	Lys	Ser	Ala	Val	Gln	Gly	Pro	Pro	Asp	Arg	Asp	Leu		
305					310					315					320		
Cys	Gly	Cys	Tyr	Ser	Val	Ser	Ser	Val	Leu	Pro	Gly	Cys	Ala	Glu	Pro		
				325					330					335			
Trp	Asn	His	Gly	Lys	Thr	Phe	Thr	Cys	Thr	Ala	Ala	Tyr	Pro	Glu	Ser		
			340					345					350				
Lys	Thr	Pro	Leu	Thr	Ala	Thr	Leu	Ser	Lys	Ser	Gly	Asn	Thr	Phe	Arg		
		355					360					365					
Pro	Glu	Val	His	Leu	Leu	Pro	Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn		
	370					375					380						
Glu	Leu	Val	Thr	Leu	Thr	Cys	Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp		
385					390					395					400		
Val	Leu	Val	Arg	Trp	Leu	Gln	Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu	Lys		
			405						410					415			
Tyr	Leu	Thr	Trp	Ala	Ser	Arg	Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr	Thr		
			420					425					430				
Phe	Ala	Val	Thr	Ser	Ile	Leu	Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys		
		435					440					445					
Gly	Asp	Thr	Phe	Ser	Cys	Met	Val	Gly	His	Glu	Ala	Leu	Pro	Leu	Ala		
	450					455					460						
Phe	Thr	Gln	Lys	Thr	Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val		
465					470					475					480		
Asn	Val	Ser	Val	Val	Met	Ala	Xaa	Val	Xaa	Gly	Pro	Cys	Xaa	Xaa	Ala		
				485					490						495		

Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys  
500 505 510

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
515 520 525

Lys Lys  
530

<210> 2190  
<211> 265  
<212> PRT  
<213> Homo sapiens

<400> 2190  
Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp  
1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr  
20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala  
35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu  
50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile  
65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg  
85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His  
100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys  
115 120 125

Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val  
130 135 140

Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser  
145 150 155 160

Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe  
165 170 175

Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro  
180 185 190

Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys  
195 200 205

Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly  
210 215 220

Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg

1451

0983345 "04201





Ala Gly Lys Asn Met Ser Ala Arg Leu Thr Val Val Cys Lys Gln Cys  
85 90 95  
Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile Ile Met Gly Gln Val Gly  
100 105 110  
Glu Asp Gly Arg Gly Lys Ile Met Pro Asn Ser Phe Ile Met Met Phe  
115 120 125  
Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys  
130 135 140

<210> 2193  
<211> 294  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2193  
Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe  
1 5 10 15  
Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr  
20 25 30  
Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn  
35 40 45  
Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile  
50 55 60  
Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp  
65 70 75 80  
Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Xaa Val Phe Asn  
85 90 95  
Xaa Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp  
100 105 110  
Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln  
115 120 125  
Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr  
130 135 140

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr  
 145 150 155 160

Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys  
 165 170 175

Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser  
 180 185 190

Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp  
 195 200 205

Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly  
 210 215 220

Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr  
 225 230 235 240

Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile  
 245 250 255

Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn  
 260 265 270

Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala  
 275 280 285

Leu Lys Asn Lys Gln Cys  
 290

<210> 2194  
 <211> 487  
 <212> PRT  
 <213> Homo sapiens

<400> 2194  
 Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp  
 1 5 10 15

Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys  
 20 25 30

Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile  
 35 40 45

Ser Ser Gly Gly His Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys  
 50 55 60

Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Asn Gly Val Thr Tyr Tyr  
 65 70 75 80

Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln  
 85 90 95

Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala  
 100 105 110

Val Tyr Tyr Cys Ala Lys Asp His Arg Ala Thr Arg Asp Gly Tyr Gln

	115						120						125					
Leu	Glu 130	Tyr	Arg	Gly	Phe	Asp 135	Tyr	Trp	Gly	Gln	Gly 140	Ile	Leu	Val	Thr			
Val 145	Ser	Ser	Ala	Ser	Pro 150	Thr	Ser	Pro	Lys	Val 155	Phe	Pro	Leu	Ser	Leu 160			
Asp	Ser	Thr	Pro	Gln 165	Asp	Gly	Asn	Val	Val 170	Val	Ala	Cys	Leu	Val 175	Gln			
Gly	Phe	Phe	Pro 180	Gln	Glu	Pro	Leu	Ser 185	Val	Thr	Trp	Ser	Glu 190	Ser	Gly			
Gln	Asn	Val 195	Thr	Ala	Arg	Asn 200	Phe	Pro	Pro	Ser	Gln	Asp 205	Ala	Ser	Gly			
Asp 210	Leu	Tyr	Thr	Thr	Ser 215	Ser	Gln	Leu	Thr	Leu 220	Pro	Ala	Thr	Gln	Cys			
Pro 225	Asp	Gly	Lys	Ser 230	Val	Thr	Cys	His	Val	Lys 235	His	Tyr	Thr	Asn	Pro 240			
Ser	Gln	Asp	Val 245	Thr	Val	Pro	Cys	Pro	Val 250	Pro	Pro	Pro	Pro	Pro 255	Cys			
Cys	His	Pro 260	Arg	Leu	Ser	Leu	His 265	Arg	Pro	Ala	Leu	Glu 270	Asp	Leu	Leu			
Leu	Gly 275	Ser	Glu	Ala	Asn	Leu	Thr 280	Cys	Thr	Leu	Thr	Gly 285	Leu	Arg	Asp			
Ala 290	Ser	Gly	Ala	Thr	Phe 295	Thr	Trp	Thr	Pro	Ser 300	Ser	Gly	Lys	Ser	Ala			
Val 305	Gln	Gly	Pro	Pro	Glu 310	Arg	Asp	Leu	Cys	Gly 315	Cys	Tyr	Ser	Val	Ser 320			
Ser	Val	Leu	Pro	Gly 325	Cys	Ala	Gln	Pro	Trp 330	Asn	His	Gly	Glu	Thr 335	Phe			
Thr	Cys	Thr 340	Ala	Ala	His	Pro	Glu 345	Leu	Lys	Thr	Pro	Leu 350	Thr	Ala	Asn			
Ile	Thr 355	Lys	Ser	Gly	Asn	Thr	Phe 360	Arg	Pro	Glu	Val	His 365	Leu	Leu	Pro			
Pro 370	Pro	Ser	Glu	Glu	Leu 375	Ala	Leu	Asn	Glu	Leu 380	Val	Thr	Leu	Thr	Cys			
Leu 385	Ala	Arg	Gly	Phe	Ser 390	Pro	Lys	Asp	Val	Leu 395	Val	Arg	Trp	Leu	Gln 400			
Gly	Ser	Gln	Glu	Leu 405	Pro	Arg	Glu	Lys	Tyr 410	Leu	Thr	Trp	Ala	Ser 415	Arg			
Gln	Glu	Pro 420	Ser	Gln	Gly	Thr	Thr 425	Thr	Phe	Ala	Val	Thr 430	Ser	Ile	Leu			
Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys	Gly	Asp	Thr	Phe	Ser	Cys	Met			

Parameter	Value	Unit
Initial temperature	25.0	°C
Final temperature	100.0	°C
Heating rate	10.0	°C/min
Sample weight	0.5000	g
Sample size	1.0000	cm
Sample density	1.0000	g/cm <sup>3</sup>
Sample area	0.7854	cm <sup>2</sup>
Sample thickness	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm
Sample width	0.1270	cm
Sample depth	0.1270	cm
Sample length	0.1270	cm
Sample volume	0.1000	cm <sup>3</sup>
Sample mass	0.1000	g
Sample surface area	1.5708	cm <sup>2</sup>
Sample perimeter	3.1416	cm
Sample circumference	3.1416	cm
Sample diameter	1.0000	cm
Sample radius	0.5000	cm
Sample height	0.1270	cm

435 440 445  
Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp  
450 455 460  
Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala  
465 470 475 480  
Glu Val Asp Gly Thr Cys Tyr  
485

<210> 2195  
<211> 189  
<212> PRT  
<213> Homo sapiens

<400> 2195  
Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp  
1 5 10 15  
Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr  
20 25 30  
Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala  
35 40 45  
Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu  
50 55 60  
Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile  
65 70 75 80  
Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg  
85 90 95  
Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His  
100 105 110  
Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys  
115 120 125  
Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met Leu Ala Lys Ser  
130 135 140  
Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys Gly His Ser Val  
145 150 155 160  
Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile Ile Asp Phe Leu  
165 170 175  
Ala Ser Val His Asn Thr Asp Asn Asn Lys Lys Leu Asp  
180 185

<210> 2196  
<211> 298  
<212> PRT

1. <i>U. de la Sierra</i> (1971)	
Year	Age
1971	1971
1972	1972
1973	1973
1974	1974
1975	1975
1976	1976
1977	1977
1978	1978
1979	1979
1980	1980
1981	1981
1982	1982
1983	1983
1984	1984
1985	1985
1986	1986
1987	1987
1988	1988
1989	1989
1990	1990
1991	1991
1992	1992
1993	1993
1994	1994
1995	1995
1996	1996
1997	1997
1998	1998
1999	1999
2000	2000
2001	2001
2002	2002
2003	2003
2004	2004
2005	2005
2006	2006
2007	2007
2008	2008
2009	2009
2010	2010
2011	2011
2012	2012
2013	2013
2014	2014
2015	2015
2016	2016
2017	2017
2018	2018
2019	2019
2020	2020
2021	2021
2022	2022
2023	2023
2024	2024
2025	2025
2026	2026
2027	2027
2028	2028
2029	2029
2030	2030
2031	2031
2032	2032
2033	2033
2034	2034
2035	2035
2036	2036
2037	2037
2038	2038
2039	2039
2040	2040
2041	2041
2042	2042
2043	2043
2044	2044
2045	2045
2046	2046
2047	2047
2048	2048
2049	2049
2050	2050
2051	2051
2052	2052
2053	2053
2054	2054
2055	2055
2056	2056
2057	2057
2058	2058
2059	2059
2060	2060
2061	2061
2062	2062
2063	2063
2064	2064
2065	2065
2066	2066
2067	2067
2068	2068
2069	2069
2070	2070
2071	2071
2072	2072
2073	2073
2074	2074
2075	2075
2076	2076
2077	2077
2078	2078
2079	2079
2080	2080
2081	2081
2082	2082
2083	2083
2084	2084
2085	2085
2086	2086
2087	2087
2088	2088
2089	2089
2090	2090
2091	2091
2092	2092
2093	2093
2094	2094
2095	2095
2096	2096
2097	2097
2098	2098
2099	2099
2100	2100
2101	2101
2102	2102
2103	2103
2104	2104
2105	2105
2106	2106
2107	2107
2108	2108
2109	2109
2110	2110
2111	2111
2112	2112
2113	2113
2114	2114
2115	2115
2116	2116
2117	2117
2118	2118
2119	2119

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu  
1 5 10 15

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu  
35 40 45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile  
50 55 60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr  
65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu  
85 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp  
100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe  
115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn  
130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp  
145 150 155 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu  
165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe  
180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala  
195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala  
210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His  
225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys  
245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu  
260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys  
275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe  
290 295



275	280	285
Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe		
290	295	
<210> 2198		
<211> 42		
<212> PRT		
<213> Homo sapiens		
<400> 2198		
Met Glu Cys Lys Lys Arg Ile Gln Leu Ile Met Leu Ala Ser Ile Val		
1	5	10 15
Arg Leu Pro Pro Thr Glu Gln Ser Gly Leu Leu Lys Thr Arg Phe His		
	20	25 30
Asn Phe Cys Gln Arg Asn Leu Gln Ser Ser		
	35	40
<210> 2199		
<211> 472		
<212> PRT		
<213> Homo sapiens		
<400> 2199		
Met Ile Arg Thr Arg Arg Gly Trp Ser Ser Met Trp Pro Trp Ile Gly		
1	5	10 15
Val Gly Tyr Leu Ala Gly Cys Leu Val His Ala Leu Gly Glu Lys Gln		
	20	25 30
Pro Glu Leu Gln Ile Ser Glu Arg Asp Val Leu Cys Val Gln Ile Ala		
	35	40 45
Gly Leu Cys His Asp Leu Gly His Gly Pro Phe Ser His Met Phe Asp		
	50	55 60
Gly Arg Phe Ile Pro Leu Ala Arg Pro Glu Val Lys Trp Thr His Glu		
	65	70 75 80
Gln Gly Ser Val Met Met Phe Glu His Leu Ile Asn Ser Asn Gly Ile		
	85	90 95
Lys Pro Val Met Glu Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys		
	100	105 110
Phe Ile Lys Glu Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp		
	115	120 125
Ser Leu Trp Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr		
	130	135 140
Glu Ile Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp		
	145	150 155 160



Tyr	Phe	Ala	Arg	Asp	Cys	His	His	Leu	Gly	Ile	Gln	Asn	Asn	Phe	Asp		
				165					170					175			
Tyr	Lys	Arg	Phe	Ile	Lys	Phe	Ala	Arg	Val	Cys	Glu	Val	Asp	Asn	Glu		
				180					185					190			
Leu	Arg	Ile	Cys	Ala	Arg	Asp	Lys	Glu	Val	Gly	Asn	Leu	Tyr	Asp	Met		
				195					200					205			
Phe	His	Thr	Arg	Asn	Ser	Leu	His	Arg	Arg	Ala	Tyr	Gln	His	Lys	Val		
				210					215					220			
Gly	Asn	Ile	Ile	Asp	Thr	Met	Ile	Thr	Asp	Ala	Phe	Leu	Glu	Ala	Asp		
				225					230					235			
Asp	Tyr	Ile	Glu	Ile	Thr	Gly	Ala	Gly	Gly	Lys	Lys	Tyr	Arg	Ile	Ser		
				245					250					255			
Thr	Ala	Ile	Asp	Asp	Met	Glu	Ala	Tyr	Thr	Lys	Leu	Thr	Asp	Asn	Ile		
				260					265					270			
Phe	Leu	Glu	Ile	Leu	Tyr	Ser	Thr	Asp	Pro	Lys	Leu	Lys	Asp	Ala	Arg		
				275					280					285			
Glu	Ile	Leu	Lys	Gln	Ile	Glu	Tyr	Arg	Asn	Leu	Phe	Lys	Tyr	Val	Gly		
				290					295					300			
Glu	Thr	Gln	Pro	Thr	Gly	Gln	Ile	Lys	Ile	Lys	Arg	Glu	Asp	Tyr	Glu		
				305					310					315			
Ser	Leu	Pro	Lys	Glu	Val	Ala	Ser	Ala	Lys	Pro	Lys	Val	Leu	Leu	Asp		
				325					330					335			
Val	Lys	Leu	Lys	Ala	Glu	Asp	Phe	Ile	Val	Asp	Val	Ile	Asn	Met	Asp		
				340					345					350			
Tyr	Gly	Met	Gln	Glu	Lys	Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys		
				355					360					365			
Lys	Thr	Ala	Pro	Asn	Arg	Ala	Ile	Arg	Ile	Thr	Lys	Asn	Gln	Val	Ser		
				370					375					380			
Gln	Leu	Leu	Pro	Glu	Lys	Phe	Ala	Glu	Gln	Leu	Ile	Arg	Val	Tyr	Cys		
				385					390					395			
Lys	Lys	Val	Asp	Arg	Lys	Ser	Leu	Tyr	Ala	Ala	Arg	Gln	Tyr	Phe	Val		
				405					410					415			
Gln	Trp	Cys	Ala	Asp	Arg	Asn	Phe	Thr	Lys	Pro	Gln	Asp	Gly	Asp	Val		
				420					425					430			
Ile	Ala	Pro	Leu	Ile	Thr	Pro	Gln	Lys	Lys	Glu	Trp	Asn	Asp	Ser	Thr		
				435					440					445			
Ser	Val	Gln	Asn	Pro	Thr	Arg	Leu	Arg	Glu	Ala	Ser	Lys	Ser	Arg	Val		
				450					455					460			
Gln	Leu	Phe	Lys	Asp	Asp	Pro	Met										
				465					470								

<210> 2200  
 <211> 626  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (353)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (354)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (363)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2200  
 Met Gln Arg Ala Asp Ser Glu Gln Pro Ser Lys Arg Pro Arg Cys Asp  
 1 5 10 15  
 Asp Ser Pro Arg Thr Pro Ser Asn Thr Pro Ser Ala Glu Ala Asp Trp  
 20 25 30  
 Ser Pro Gly Leu Glu Leu His Pro Asp Tyr Lys Thr Trp Gly Pro Glu  
 35 40 45  
 Gln Val Cys Ser Phe Leu Arg Arg Gly Gly Phe Glu Glu Pro Val Leu  
 50 55 60  
 Leu Lys Asn Ile Arg Glu Asn Glu Ile Thr Gly Ala Leu Leu Pro Cys  
 65 70 75 80  
 Leu Asp Glu Ser Arg Phe Glu Asn Leu Gly Val Ser Ser Leu Gly Glu  
 85 90 95  
 Arg Lys Lys Leu Leu Ser Tyr Ile Gln Arg Leu Val Gln Ile His Val  
 100 105 110  
 Asp Thr Met Lys Val Ile Asn Asp Pro Ile His Gly His Ile Glu Leu  
 115 120 125  
 His Pro Leu Leu Val Arg Ile Ile Asp Thr Pro Gln Phe Gln Arg Leu  
 130 135 140  
 Arg Tyr Ile Lys Gln Leu Gly Gly Gly Tyr Tyr Val Phe Pro Gly Ala  
 145 150 155 160  
 Ser His Asn Arg Phe Glu His Ser Leu Gly Val Gly Tyr Leu Ala Gly  
 165 170 175  
 Cys Leu Val His Ala Leu Gly Glu Lys Gln Pro Glu Leu Gln Ile Ser  
 180 185 190  
 Glu Arg Asp Val Leu Cys Val Gln Ile Ala Gly Leu Cys His Asp Leu

195					200					205					
Gly	His	Gly	Pro	Phe	Ser	His	Met	Phe	Asp	Gly	Arg	Phe	Ile	Pro	Leu
210						215					220				
Ala	Arg	Pro	Glu	Val	Lys	Trp	Thr	His	Glu	Gln	Gly	Ser	Val	Met	Met
225					230					235					240
Phe	Glu	His	Leu	Ile	Asn	Ser	Asn	Gly	Ile	Lys	Pro	Val	Met	Glu	Gln
				245					250					255	
Tyr	Gly	Leu	Ile	Pro	Glu	Glu	Asp	Ile	Cys	Phe	Ile	Lys	Glu	Gln	Ile
			260					265					270		
Val	Gly	Pro	Leu	Glu	Ser	Pro	Val	Glu	Asp	Ser	Leu	Trp	Pro	Tyr	Lys
		275					280					285			
Gly	Arg	Pro	Glu	Asn	Lys	Ser	Phe	Leu	Tyr	Glu	Ile	Val	Ser	Asn	Lys
	290					295					300				
Arg	Asn	Gly	Ile	Asp	Val	Asp	Lys	Trp	Asp	Tyr	Phe	Ala	Arg	Asp	Cys
305					310					315					320
His	His	Leu	Gly	Ile	Gln	Asn	Asn	Phe	Asp	Tyr	Lys	Arg	Phe	Ile	Lys
				325					330					335	
Phe	Ala	Arg	Val	Cys	Glu	Val	Asp	Asn	Glu	Leu	Arg	Ile	Cys	Ala	Arg
			340					345					350		
Xaa	Xaa	Glu	Val	Gly	Asn	Leu	Tyr	Asp	Met	Xaa	His	Thr	Arg	Asn	Ser
		355					360					365			
Leu	His	Arg	Arg	Ala	Tyr	Gln	His	Lys	Val	Gly	Asn	Ile	Ile	Asp	Thr
		370				375					380				
Met	Ile	Thr	Asp	Ala	Phe	Leu	Lys	Ala	Asp	Asp	Tyr	Ile	Glu	Ile	Thr
385					390					395					400
Gly	Ala	Gly	Gly	Lys	Lys	Tyr	Arg	Ile	Ser	Thr	Ala	Ile	Asp	Asp	Met
				405					410					415	
Glu	Ala	Tyr	Thr	Lys	Leu	Thr	Asp	Asn	Ile	Phe	Leu	Glu	Ile	Leu	Tyr
			420					425					430		
Ser	Thr	Asp	Pro	Lys	Leu	Lys	Asp	Ala	Arg	Glu	Ile	Leu	Lys	Gln	Ile
		435					440					445			
Glu	Tyr	Arg	Asn	Leu	Phe	Lys	Tyr	Val	Gly	Glu	Thr	Gln	Pro	Thr	Gly
	450					455					460				
Gln	Ile	Lys	Ile	Lys	Arg	Glu	Asp	Tyr	Glu	Ser	Leu	Pro	Lys	Glu	Val
465					470					475					480
Ala	Ser	Ala	Lys	Pro	Lys	Val	Leu	Leu	Asp	Val	Lys	Leu	Lys	Ala	Glu
				485					490					495	
Asp	Phe	Ile	Val	Asp	Val	Ile	Asn	Met	Asp	Tyr	Gly	Met	Gln	Glu	Lys
			500					505					510		
Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys	Lys	Thr	Ala	Pro	Asn	Arg

515	520	525
Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu Leu Pro Glu Lys		
530	535	540
Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys Lys Val Asp Arg Lys		
545	550	555 560
Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg		
	565	570 575
Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr		
	580	585 590
Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr		
	595	600 605
Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp		
	610	615 620
Pro Met		
625		
<210> 2201		
<211> 245		
<212> PRT		
<213> Homo sapiens		
<220>		
<221> SITE		
<222> (128)		
<223> Xaa equals any of the naturally occurring L-amino acids		
<400> 2201		
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser		
1	5	10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys		
	20	25 30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys		
	35	40 45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln		
	50	55 60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly		
	65	70 75 80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile		
	85	90 95
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln		
	100	105 110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa		
	115	120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
 130 135 140  
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
 145 150 155 160  
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
 165 170 175  
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
 180 185 190  
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
 195 200 205  
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
 210 215 220  
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
 225 230 235 240  
 Ile Phe Pro Ser Ala  
 245

<210> 2202  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 2202  
 Met Gly Val Asn Lys Val Leu Phe Thr Phe Phe Phe Phe Ser Ser Leu  
 1 5 10 15  
 Leu Asp Gly Val Gly Thr Ser His Ser Leu Ala Ser Phe Pro His Thr  
 20 25 30

<210> 2203  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 2203  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
 1 5 10 15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
 20 25 30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
 35 40 45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
225 230 235 240

Ile Phe Pro Ser Ala  
245

<210> 2204  
<211> 245  
<212> PRT  
<213> Homo sapiens

<400> 2204  
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
                     85                    90                    95  
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
                     100                    105                    110  
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
                     115                    120                    125  
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
                     130                    135                    140  
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
                     145                    150                    155                    160  
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
                     165                    170                    175  
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
                     180                    185                    190  
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
                     195                    200                    205  
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
                     210                    215                    220  
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
                     225                    230                    235                    240  
 Ile Phe Pro Ser Ala  
                     245

<210> 2205  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 2205  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
   1                    5                    10                    15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
                     20                    25                    30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
                     35                    40                    45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
                     50                    55                    60  
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
                     65                    70                    75                    80  
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
                     85                    90                    95  
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
225 230 235 240

Ile Phe Pro Ser Ala  
245

<210> 2206  
<211> 245  
<212> PRT  
<213> Homo sapiens

<400> 2206  
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
115 120 125





Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
100 105 110

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
115 120 125

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
130 135 140

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
145 150 155 160

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
165 170 175

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
180 185 190

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
195 200 205

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
210 215 220

Ile Phe Pro Ser Ala  
225

<210> 2208  
<211> 207  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2208  
Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu  
1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys  
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp  
35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala  
 50 55 60  
 Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Xaa Gly Xaa Ala Glu Ile  
 65 70 75 80  
 Pro Val Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr  
 85 90 95  
 Gln Gln Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Glu Xaa  
 100 105 110  
 Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr  
 115 120 125  
 Tyr Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu  
 130 135 140  
 Tyr Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys  
 145 150 155 160  
 Thr Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly  
 165 170 175  
 Glu Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile  
 180 185 190  
 Gln Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp  
 195 200 205

<210> 2209

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2209

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp  
 1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Met Gln Met Thr Gln Ser Pro Ser Ser  
 20 25 30

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser  
 35 40 45

Gln Ser Ile Gly Lys Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln  
 50 55 60

Ala Pro Lys Leu Leu Ile Ser Gly Ala Ser Ile Leu Gln Thr Gly Val  
 65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Ala Thr Tyr Phe Thr Leu Thr  
 85 90 95

Ile Asn Asp Leu His Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln  
 100 105 110

Asp Tyr Thr Thr Pro Leu Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

1470

0963245-04401

115	120	125
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu		
130	135	140
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe		
145	150	155 160
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln		
	165 170	175
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser		
	180 185	190
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu		
	195 200	205
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser		
	210 215	220
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys		
225	230	235

<210> 2210  
 <211> 234  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2210

Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Trp Leu Ser
1 5 10 15
Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30
Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp
35 40 45
Ile Ala Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro
50 55 60
Lys Leu Val Ile Phe Asp Gly Ser Ile Leu His Thr Gly Val Pro Ser
65 70 75 80
Arg Phe Ser Gly Gly Gly Ser Gly Thr His Phe Thr Phe Thr Ile Asn
85 90 95
Asn Leu Gln Pro Asp Asp Val Ala Thr Tyr Ser Cys Gln Gln Tyr Asn
100 105 110
Thr Phe Pro Leu Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile Lys Arg
115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln  
 130 135 140  
 Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr  
 145 150 155 160  
 Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser  
 165 170 175  
 Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr  
 180 185 190  
 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys  
 195 200 205  
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro  
 210 215 220  
 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
 225 230

<210> 2211  
 <211> 206  
 <212> PRT  
 <213> Homo sapiens

<400> 2211  
 Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu  
 1 5 10 15  
 Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys  
 20 25 30  
 Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp  
 35 40 45  
 Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala  
 50 55 60  
 Ile Pro Gly Ile Arg Gly Pro Lys Gly Arg Tyr Lys Gln Lys Phe Gln  
 65 70 75 80  
 Ser Val Phe Thr Val Thr Arg Gln Thr His Gln Pro Pro Ala Pro Asn  
 85 90 95  
 Ser Leu Ile Arg Phe Asn Ala Val Leu Thr Asn Pro Gln Gly Asp Tyr  
 100 105 110  
 Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr Tyr  
 115 120 125  
 Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu Tyr  
 130 135 140  
 Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys Thr  
 145 150 155 160  
 Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly Glu



<210> 2213  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 2213  
 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro  
   1                  5                  10                  15  
  
 Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser  
                   20                  25                  30  
  
 Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln  
                   35                  40                  45  
  
 Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe  
                   50                  55                  60  
  
 Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys  
   65                  70                  75                  80  
  
 Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr  
                   85                  90                  95  
  
 Arg Leu Gln Phe Ala Ser Leu Lys Lys Ser Phe Thr Lys Gln Asn Xaa  
                   100                  105                  110  
  
 Phe Pro Val Gly Ser Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr Gln  
                   115                  120                  125  
  
 Arg Asp His Leu Leu Ser Gly Lys Leu Thr Cys Leu Leu Asn Phe Thr  
   130                  135                  140  
  
 Trp Ser Lys Pro Asp Glu Phe Cys Lys Arg Lys Ser Cys Pro Asn Pro  
   145                  150                  155                  160  
  
 Gly Asp Leu Arg His Gly His Val Asn Ile Pro Thr Asp Ile Leu Tyr  
                   165                  170                  175  
  
 Ala Ala Val Ile His Phe Ser Cys Asn Lys Gly Tyr Arg Leu Val Gly  
                   180                  185                  190  
  
 Ala Ala Ser Ser Tyr Cys Ser Ile Val Asn Asp Asp Val Gly Trp Ser  
                   195                  200                  205  
  
 Asp Pro Leu Pro Glu Cys Gln Glu Ile Phe Cys Pro Glu Pro Pro Lys  
   210                  215                  220  
  
 Ile Ser Asn Gly Val Ile Leu Asp Gln Gln Asn Thr Tyr Val Tyr Gln  
   225                  230                  235                  240

Gln Ala Val Lys Tyr Glu Cys Ile Lys Gly Phe Thr Leu Ile Gly Glu  
 245 250 255

Asn Ser Asp Leu Leu Tyr Cys  
 260

<210> 2214  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 2214  
 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro  
 1 5 10 15  
 Leu Leu Pro Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala  
 20 25 30  
 Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg  
 35 40 45  
 Val Phe Leu Lys Asn Ser Gln  
 50 55

<210> 2215  
 <211> 350  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215  
 Met Ala Xaa Xaa Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly  
 1 5 10 15  
 Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn  
 20 25 30  
 Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu  
 35 40 45  
 Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala  
 50 55 60  
 Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val  
 65 70 75 80



Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr  
                     85                    90                    95  
 Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser  
                     100                    105                    110  
 Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala  
                     115                    120                    125  
 Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe  
                     130                    135                    140  
 Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln  
 145                    150                    155                    160  
 Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn  
                     165                    170                    175  
 Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp  
                     180                    185                    190  
 Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser  
                     195                    200                    205  
 Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys  
                     210                    215                    220  
 Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu  
 225                    230                    235                    240  
 Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly  
                     245                    250                    255  
 Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser  
                     260                    265                    270  
 Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn  
                     275                    280                    285  
 Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser  
                     290                    295                    300  
 Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala  
 305                    310                    315                    320  
 Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp  
                     325                    330                    335  
 Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp  
                     340                    345                    350

<210> 2216

<211> 350

<212> PRT

<213> Homo sapiens

<400> 2216

Met Ala Val Phe Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly

1	5	10	15
Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn	20	25	30
Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu	35	40	45
Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala	50	55	60
Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val	65	70	75
Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr	85	90	95
Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser	100	105	110
Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala	115	120	125
Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe	130	135	140
Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln	145	150	155
Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn	165	170	175
Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp	180	185	190
Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser	195	200	205
Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys	210	215	220
Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu	225	230	235
Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly	245	250	255
Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser	260	265	270
Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn	275	280	285
Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser	290	295	300
Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala	305	310	315
Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp			

	325		330		335								
Ser	Ile	Ile	Tyr	Arg	Met	Thr	Asn	Gln	Lys	Ile	Arg	Met	Asp
	340						345						350

<210> 2217  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217

Met	Cys	Ser	Leu	Phe	His	Ala	Phe	Ile	Phe	Ala	Gln	Leu	Trp	Thr	Val
1				5					10					15	
Tyr	Cys	Glu	Gln	Ser	Ala	Val	Ala	Thr	Asn	Leu	Gln	Asn	Gln	Asn	Glu
		20						25				30			
Phe	Ser	Phe	Thr	Ala	Ile	Leu	Thr	Ala	Leu	Glu	Phe	Trp	Ser	Arg	Val
		35					40					45			
Thr	Pro	Ser	Ile	Leu	Gln	Leu	Met	Ala	His	Asn	Lys	Xaa	Met	Val	Glu
	50					55					60				
Met	Val	Cys	Leu	His	Val	Ile	Ser	Leu	Met	Glu	Ala	Leu	Gln	Xaa	Cys
65					70					75					80
Asn	Ser	Thr	Ile	Phe	Val	Lys	Leu	Ile	Pro	Met	Trp	Leu	Pro	Met	Ile
				85					90					95	
Gln	Ser	Asn	Ile	Lys	His	Leu	Ser	Ala	Gly	Leu	Gln	Leu	Arg	Leu	Gln
			100					105					110		
Ala	Ile	Gln	Asn	His	Val	Asn	His	His	Ser	Leu	Arg	Thr	Leu	Pro	Gly
	115					120						125			
Ser	Gly	Gln	Ser	Ser	Ala	Gly	Leu	Ala	Ala	Leu	Arg	Lys	Trp	Leu	Gln
	130					135					140				
Cys	Thr	Gln	Phe	Lys	Met	Ala	Gln	Val	Glu	Ile	Gln	Ser	Ser	Glu	Ala
145					150					155					160
Ala	Ser	Gln	Phe	Tyr	Pro	Leu									
				165											

<210> 2218  
 <211> 110

<212> PRT  
<213> Homo sapiens

<400> 2218

```
Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr
 1              5              10              15

Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly Tyr
          20              25              30

Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val Leu
          35              40              45

Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln Leu
          50              55              60

Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe Gln
          65              70              75              80

Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu
          85              90              95

Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro
          100              105              110
```

<210> 2219  
<211> 115  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2219

```
Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly
 1              5              10              15

Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly
          20              25              30

Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro Pro His
          35              40              45

Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys
          50              55              60

Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp
          65              70              75              80

Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala
          85              90              95
```

Asp Ser Gly Gly Xaa Leu Glu Glu Leu Xaa Pro Ser Gln Thr Trp Val  
 100 105 110

Ser Lys Thr  
 115

<210> 2220  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (254)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2220  
 Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu  
 1 5 10 15

Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg  
 20 25 30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr  
 35 40 45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys  
 50 55 60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp  
 65 70 75 80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His  
 85 90 95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser  
 100 105 110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr  
 115 120 125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys  
 130 135 140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val  
 145 150 155 160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly  
 165 170 175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr  
 180 185 190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile  
 195 200 205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His  
 1480

093345-0430

210	215	220
Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser		
225	230	235 240
Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Xaa Thr Ser		
	245	250 255
Arg Asn Phe Gln Thr Lys		
260		
<210> 2221		
<211> 514		
<212> PRT		
<213> Homo sapiens		
<400> 2221		
Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln Ala Cys Asn Arg		
1	5	10 15
Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp Gln Pro Cys Ser		
	20	25 30
Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val Leu Cys Lys Gln		
	35	40 45
Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu Thr Phe Cys Ser		
	50	55 60
Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys Asp Asp Cys Pro		
	65	70 75 80
Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser Thr Ser Cys Gly		
	85	90 95
Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys Met Leu Lys Thr		
	100	105 110
Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro Pro Leu Pro Phe		
	115	120 125
Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys Ala Arg Pro Gly		
	130	135 140
Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala Ala Arg Lys Val		
	145	150 155 160
Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe Val Val Gly Gly		
	165	170 175
Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu Arg Cys Pro Ala		
	180	185 190
Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His		
	195	200 205
Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe Gly Tyr Leu Lys		
	210	215 220

Ile	His	Arg	Leu	Lys	Pro	Ser	Asp	Ala	Gly	Val	Tyr	Thr	Cys	Ser	Ala	225	230	235	240
Gly	Pro	Ala	Arg	Glu	His	Phe	Val	Ile	Lys	Leu	Ile	Gly	Gly	Asn	Arg	245	250	255	
Lys	Leu	Val	Ala	Arg	Pro	Leu	Ser	Pro	Arg	Ser	Glu	Glu	Glu	Val	Leu	260	265	270	
Ala	Gly	Arg	Lys	Gly	Gly	Pro	Lys	Glu	Ala	Leu	Gln	Thr	His	Lys	His	275	280	285	
Gln	Asn	Gly	Ile	Phe	Ser	Asn	Gly	Ser	Lys	Ala	Glu	Lys	Arg	Gly	Leu	290	295	300	
Ala	Ala	Asn	Pro	Gly	Ser	Arg	Tyr	Asp	Asp	Leu	Val	Ser	Arg	Leu	Leu	305	310	315	320
Glu	Gln	Gly	Gly	Trp	Pro	Gly	Glu	Leu	Leu	Ala	Ser	Trp	Glu	Ala	Gln	325	330	335	
Asp	Ser	Ala	Glu	Arg	Asn	Thr	Thr	Ser	Glu	Glu	Asp	Pro	Gly	Ala	Glu	340	345	350	
Gln	Val	Leu	Leu	His	Leu	Pro	Phe	Thr	Met	Val	Thr	Glu	Gln	Arg	Arg	355	360	365	
Leu	Asp	Asp	Ile	Leu	Gly	Asn	Leu	Ser	Gln	Gln	Pro	Glu	Glu	Leu	Arg	370	375	380	
Asp	Leu	Tyr	Ser	Lys	His	Leu	Val	Ala	Gln	Leu	Ala	Gln	Glu	Ile	Phe	385	390	395	400
Arg	Ser	His	Leu	Glu	His	Gln	Asp	Thr	Leu	Leu	Lys	Pro	Ser	Glu	Arg	405	410	415	
Arg	Thr	Ser	Pro	Val	Thr	Leu	Ser	Pro	His	Lys	His	Val	Ser	Gly	Phe	420	425	430	
Ser	Ser	Ser	Leu	Arg	Thr	Ser	Ser	Thr	Gly	Asp	Ala	Gly	Gly	Gly	Ser	435	440	445	
Arg	Arg	Pro	His	Arg	Lys	Pro	Thr	Ile	Leu	Arg	Lys	Ile	Ser	Ala	Ala	450	455	460	
Gln	Gln	Leu	Ser	Ala	Ser	Glu	Val	Val	Thr	His	Leu	Gly	Gln	Thr	Val	465	470	475	480
Ala	Leu	Ala	Ser	Gly	Thr	Leu	Ser	Val	Phe	Cys	Thr	Val	Arg	Pro	Ser	485	490	495	
Ala	Thr	Gln	Gly	Leu	Pro	Ser	Ala	Gly	Pro	Gly	Met	Glu	Lys	Lys	Ser	500	505	510	
Val	Gln																		

<210> 2222  
 <211> 1745  
 <212> PRT  
 <213> Homo sapiens

<400> 2222  
 Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu  
   1                  5                  10                  15  
 Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg  
                   20                  25                  30  
 Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr  
           35                  40                  45  
 Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys  
           50                  55                  60  
 Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp  
           65                  70                  75                  80  
 Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His  
                   85                  90                  95  
 Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser  
                   100                  105                  110  
 Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr  
           115                  120                  125  
 Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys  
           130                  135                  140  
 Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val  
           145                  150                  155                  160  
 Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly  
                   165                  170                  175  
 Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr  
           180                  185                  190  
 Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile  
           195                  200                  205  
 Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His  
           210                  215                  220  
 Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser  
           225                  230                  235                  240  
 Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe  
                   245                  250                  255  
 Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr  
           260                  265                  270  
 Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr  
           275                  280                  285



Val	Gln	Phe	Ile	Phe	Tyr	Gln	Pro	Ile	Ile	His	Arg	Trp	Arg	Glu	Thr	290	295	300
Asp	Phe	Phe	Pro	Cys	Ser	Ala	Thr	Cys	Gly	Gly	Gly	Tyr	Gln	Leu	Thr	305	310	315
Ser	Ala	Glu	Cys	Tyr	Asp	Leu	Arg	Ser	Asn	Arg	Val	Val	Ala	Asp	Gln	325	330	335
Tyr	Cys	His	Tyr	Tyr	Pro	Glu	Asn	Ile	Lys	Pro	Lys	Pro	Lys	Leu	Gln	340	345	350
Glu	Cys	Asn	Leu	Asp	Pro	Cys	Pro	Ala	Arg	Trp	Glu	Ala	Thr	Pro	Trp	355	360	365
Thr	Ala	Cys	Ser	Ser	Ser	Cys	Gly	Gly	Gly	Ile	Gln	Ser	Arg	Ala	Val	370	375	380
Ser	Cys	Val	Glu	Glu	Asp	Ile	Gln	Gly	His	Val	Thr	Ser	Val	Glu	Glu	385	390	395
Trp	Lys	Cys	Met	Tyr	Thr	Pro	Lys	Met	Pro	Ile	Ala	Gln	Pro	Cys	Asn	405	410	415
Ile	Phe	Asp	Cys	Pro	Lys	Trp	Leu	Ala	Gln	Glu	Trp	Ser	Pro	Cys	Thr	420	425	430
Val	Thr	Cys	Gly	Gln	Gly	Leu	Arg	Tyr	Arg	Val	Val	Leu	Cys	Ile	Asp	435	440	445
His	Arg	Gly	Met	His	Thr	Gly	Gly	Cys	Ser	Pro	Lys	Thr	Lys	Pro	His	450	455	460
Ile	Lys	Glu	Glu	Cys	Ile	Val	Pro	Thr	Pro	Cys	Tyr	Lys	Pro	Lys	Glu	465	470	475
Lys	Leu	Pro	Val	Glu	Ala	Lys	Leu	Pro	Trp	Phe	Lys	Gln	Ala	Gln	Glu	485	490	495
Leu	Glu	Glu	Gly	Ala	Ala	Val	Ser	Glu	Glu	Pro	Ser	Phe	Ile	Pro	Lys	500	505	510
Ala	Trp	Ser	Ala	Cys	Thr	Val	Thr	Cys	Gly	Val	Gly	Thr	Gln	Val	Arg	515	520	525
Ile	Val	Arg	Cys	Gln	Val	Leu	Leu	Ser	Phe	Ser	Gln	Ser	Val	Ala	Asp	530	535	540
Leu	Pro	Ile	Asp	Glu	Cys	Glu	Gly	Pro	Lys	Pro	Ala	Ser	Gln	Arg	Ala	545	550	555
Cys	Tyr	Ala	Gly	Pro	Cys	Ser	Gly	Glu	Ile	Pro	Glu	Phe	Asn	Pro	Asp	565	570	575
Glu	Thr	Asp	Gly	Leu	Phe	Gly	Gly	Leu	Gln	Asp	Phe	Asp	Glu	Leu	Tyr	580	585	590
Asp	Trp	Glu	Tyr	Glu	Gly	Phe	Thr	Lys	Cys	Ser	Glu	Ser	Cys	Gly	Gly	595	600	605

Gly	Val	Gln	Glu	Ala	Val	Val	Ser	Cys	Leu	Asn	Lys	Gln	Thr	Arg	Glu	610	615	620
Pro	Ala	Glu	Glu	Asn	Leu	Cys	Val	Thr	Ser	Arg	Arg	Pro	Pro	Gln	Leu	625	630	635
Leu	Lys	Ser	Cys	Asn	Leu	Asp	Pro	Cys	Pro	Ala	Arg	Trp	Glu	Ile	Gly	645	650	655
Lys	Trp	Ser	Pro	Cys	Ser	Leu	Thr	Cys	Gly	Val	Gly	Leu	Gln	Thr	Arg	660	665	670
Asp	Val	Phe	Cys	Ser	His	Leu	Leu	Ser	Arg	Glu	Met	Asn	Glu	Thr	Val	675	680	685
Ile	Leu	Ala	Asp	Glu	Leu	Cys	Arg	Gln	Pro	Lys	Pro	Ser	Thr	Val	Gln	690	695	700
Ala	Cys	Asn	Arg	Phe	Asn	Cys	Pro	Pro	Ala	Trp	Tyr	Pro	Ala	Gln	Trp	705	710	715
Gln	Pro	Cys	Ser	Arg	Thr	Cys	Gly	Gly	Gly	Val	Gln	Lys	Arg	Glu	Val	725	730	735
Leu	Cys	Lys	Gln	Arg	Met	Ala	Asp	Gly	Ser	Phe	Leu	Glu	Leu	Pro	Glu	740	745	750
Thr	Phe	Cys	Ser	Ala	Ser	Lys	Pro	Ala	Cys	Gln	Gln	Ala	Cys	Lys	Lys	755	760	765
Asp	Asp	Cys	Pro	Ser	Glu	Trp	Leu	Leu	Ser	Asp	Trp	Thr	Glu	Cys	Ser	770	775	780
Thr	Ser	Cys	Gly	Glu	Gly	Thr	Gln	Thr	Arg	Ser	Ala	Ile	Cys	Arg	Lys	785	790	795
Met	Leu	Lys	Thr	Gly	Leu	Ser	Thr	Val	Val	Asn	Ser	Thr	Leu	Cys	Pro	805	810	815
Pro	Leu	Pro	Phe	Ser	Ser	Ser	Ile	Arg	Pro	Cys	Met	Leu	Ala	Thr	Cys	820	825	830
Ala	Arg	Pro	Gly	Arg	Pro	Ser	Thr	Lys	His	Ser	Pro	His	Ile	Ala	Ala	835	840	845
Ala	Arg	Lys	Val	Tyr	Ile	Gln	Thr	Arg	Arg	Gln	Arg	Lys	Leu	His	Phe	850	855	860
Val	Val	Gly	Gly	Phe	Ala	Tyr	Leu	Leu	Pro	Lys	Thr	Ala	Val	Val	Leu	865	870	875
Arg	Cys	Pro	Ala	Arg	Arg	Val	Arg	Lys	Pro	Leu	Ile	Thr	Trp	Glu	Lys	885	890	895
Asp	Gly	Gln	His	Leu	Ile	Ser	Ser	Thr	His	Val	Thr	Val	Ala	Pro	Phe	900	905	910
Gly	Tyr	Leu	Lys	Ile	His	Arg	Leu	Lys	Pro	Ser	Asp	Ala	Gly	Val	Tyr	915	920	925

Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile  
930 935 940

Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu  
945 950 955 960

Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln  
965 970 975

Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu  
980 985 990

Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val  
995 1000 1005

Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser  
1010 1015 1020

Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp  
1025 1030 1035 1040

Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr  
1045 1050 1055

Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro  
1060 1065 1070

Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala  
1075 1080 1085

Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys  
1090 1095 1100

Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His  
1105 1110 1115 1120

Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala  
1125 1130 1135

Gly Gly Gly Ser Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys  
1140 1145 1150

Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu  
1155 1160 1165

Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu His  
1170 1175 1180

Cys Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg Asn  
1185 1190 1195 1200

Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp Asp  
1205 1210 1215

Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr Thr  
1220 1225 1230

Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala Val  
1235 1240 1245



Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val Asp Thr Gln Ala  
 1570 1575 1580

Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser Ser Trp Gly Gln  
 1585 1590 1595 1600

Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val Gln His Arg Gln  
 1605 1610 1615

Val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro Ser Glu Gln Cys  
 1620 1625 1630

Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys Trp Ser Glu Ala  
 1635 1640 1645

Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu Cys Thr Ala Thr  
 1650 1655 1660

Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu Cys Val His Ala  
 1665 1670 1675 1680

Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg  
 1685 1690 1695

Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met Glu  
 1700 1705 1710

Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys Gln Leu Lys Leu  
 1715 1720 1725

Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly Thr Cys Gly Lys  
 1730 1735 1740

Ala  
 1745

<210> 2223  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 2223  
 Glu Cys Cys Glu Thr Ala Ala Pro Pro Gly Pro His Arg Arg Pro Glu  
 1 5 10 15

Ser Gly Gln

<210> 2224  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 2224  
 Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Leu Ser Ala Phe Ser  
 1 5 10 15

1489

Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp Ile Thr His Ser Leu  
 340 345 350

His Asp Gln Gly His Ser His Leu Gly Asp Pro  
 355 360

<210> 2225  
 <211> 183  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2225  
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu  
 1 5 10 15  
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala  
 20 25 30  
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp  
 35 40 45  
 Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro  
 50 55 60  
 Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro  
 65 70 75 80  
 Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala  
 85 90 95  
 Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu  
 100 105 110  
 Ile Gly Glu Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly  
 115 120 125  
 Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly  
 130 135 140  
 Arg Xaa His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val  
 145 150 155 160  
 Ala Phe Leu Asp Asp Arg His Ala Gly Ser Gly Cys Pro Ser Ser Arg  
 165 170 175  
 Arg Leu Cys Gly Cys Gly Gly  
 180

<210> 2226  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 2226  
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu  
   1                  5                  10                  15  
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala  
                   20                  25                  30  
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp  
           35                  40                  45  
 Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro  
   50                  55                  60  
 Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro  
   65                  70                  75                  80  
 Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala  
                   85                  90                  95  
 Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu  
           100                  105                  110  
 Ile Gly Glu Xaa His Leu Pro Leu Leu Arg Arg Gln Leu Pro Pro Trp  
   115                  120                  125  
 Cys Pro His Pro Ala Trp Xaa Gly Ala Gly Pro Ala Ala Gly Pro Gly  
   130                  135                  140  
 Pro Xaa Pro Arg Arg Ala Leu Leu Pro Ala His Ser Leu His Arg Arg  
   145                  150                  155                  160  
 Gly Leu Pro Arg Arg Pro Pro Arg Trp Gln Arg Leu Pro Gln Leu Ser  
                                   1491

09832245-0400



	165		170		175										
Ala	Ala	Leu	Arg	Leu	Trp	Trp	Leu	Arg	Val	Pro	Gly	Leu	Ala	Pro	Arg
		180					185						190		
Ser	Cys	Ser	Ala	Gly	Gly	Ala	Arg	Leu	Thr	Tyr	Leu	Leu	Glu	Thr	Trp
		195					200					205			
Met	Gln	Arg	Gln	Arg	Gly	Gly	Glu	Trp	Ala	Gly	Ala	Thr	Ser	Ser	Glu
		210				215					220				
Cys	Asn	Lys	Gly	His	His	Ser	Pro	Gly	Lys	Lys	Lys	Lys	Lys	Lys	Lys
225					230					235					240
Lys	Lys	Lys	Lys	Lys	Leu	Glu	Gly	Gly	Ser	Arg	Tyr				
				245					250						

<210> 2227  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 2227
Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
1 5 10 15
Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
20 25 30
Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
35 40 45
Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
50 55 60
Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
65 70 75 80
Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
85 90 95
Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
100 105 110
Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
115 120 125
Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
130 135 140
Ile Ser Ile Met Ile Cys
145 150

<210> 2228  
 <211> 125  
 <212> PRT

<213> Homo sapiens

<400> 2228

Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val  
1 5 10 15  
Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met  
20 25 30  
Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu  
35 40 45  
Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala  
50 55 60  
Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly  
65 70 75 80  
Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro  
85 90 95  
Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe  
100 105 110  
Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu  
115 120 125

<210> 2229

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2229

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala  
1 5 10 15  
Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val  
20 25 30  
Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu  
35 40 45  
Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val  
50 55 60  
Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu  
65 70 75 80  
Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe  
85 90 95  
Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg  
100 105 110  
Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile  
115 120 125  
Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu

130	135	140
Glu Ser Leu Thr Ile Phe Val Asp Lys Arg Lys Leu Ser Lys Arg Ala		
145	150	155 160
Glu Gly Ser Asp Ser Thr Thr Asn Ser Ser Ser Val Thr Leu Glu Thr		
	165	170 175
Leu His Gln Leu Ala Ala Ser Tyr Phe Ile Asp Arg Asp Ser Thr Leu		
	180	185 190
Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr		
	195	200 205
Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp		
	210	215 220
Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu		
	225	230 235 240
Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val		
	245	250 255
Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile		
	260	265 270
Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu		
	275	280 285
Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu		
	290	295 300
Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser		
	305	310 315 320
Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu		
	325	330 335
Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln		
	340	345 350
Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys		
	355	360 365
Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His		
	370	375 380
Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp		
	385	390 395 400
Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu		
	405	410 415
Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln		
	420	425 430
Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala		
	435	440 445
Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn		

450	455	460
Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu		
465	470	475 480
Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu		
	485	490 495
Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala		
	500	505 510
Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser		
	515	520 525
Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser		
	530	535 540
Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr		
545	550	555 560
Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe		
	565	570 575
Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser		
	580	585 590
Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr		
	595	600 605
Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr		
	610	615 620
Val His Ile Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly		
625	630	635 640
Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg		
	645	650 655
Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser		
	660	665 670
Met His Phe Asp Pro Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp		
	675	680 685
Tyr Pro Tyr Thr Gln Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu		
	690	695 700
Glu Ile Arg Asp Arg Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg		
705	710	715 720
Leu Asp Leu Phe Ser Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr		
	725	730 735
Ser Glu Val Val Arg Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys		
	740	745 750
Leu Pro Asn Thr Met Asp Tyr Asp Thr Thr Lys Leu Cys Ser		
	755	760 765

<210> 2230  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 2230  
 Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
   1                  5                  10                  15  
 Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
           20                  25                  30  
 Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
           35                  40                  45  
 His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
       50                  55                  60

<210> 2231  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 2231  
 Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr  
   1                  5                  10                  15  
 Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro  
           20                  25                  30  
 Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile  
           35                  40                  45  
 Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly  
       50                  55                  60  
 Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr  
       65                  70                  75                  80  
 Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala  
           85                  90                  95  
 Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro  
          100                 105                 110  
 Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val  
      115                 120                 125  
 Phe Phe Val Arg Asp  
      130

<210> 2232  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 2232

Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu  
 1 5 10 15  
 Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn  
 20 25 30  
 Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu  
 35 40 45  
 Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp  
 50 55 60  
 Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile  
 65 70 75 80  
 Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu  
 85 90 95  
 Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp  
 100 105 110  
 Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe  
 115 120 125  
 Val Arg Asp  
 130

<210> 2233

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2233

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu  
 1 5 10 15  
 Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp  
 20 25 30  
 Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu  
 35 40 45  
 Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile  
 50 55 60  
 Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr  
 65 70 75 80  
 Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu  
 85 90 95  
 Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp  
 100 105 110  
 Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe  
 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn  
 130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp  
 145 150 155 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu  
 165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe  
 180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala  
 195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala  
 210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His  
 225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys  
 245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu  
 260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys  
 275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe  
 290 295

<210> 2234  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 2234  
 Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu  
 1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala  
 20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala  
 35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp  
 50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp  
 65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly  
 85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg  
100 105 110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys  
115 120 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser  
130 135 140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser  
145 150 155

<210> 2235  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 2235  
Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp  
1 5 10 15

Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln  
20 25 30

Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser  
35 40 45

Leu Ala Trp Arg Leu Leu Met Ser Ser Gly  
50 55

<210> 2236  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 2236  
Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala  
1 5 10 15

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu  
20 25 30

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val  
35 40 45

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu  
50 55 60

Ile His Val Gly Leu Leu Asn  
65 70

<210> 2237  
<211> 605  
<212> PRT



<213> Homo sapiens

<400> 2237

Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser Pro  
1 5 10 15  
Leu Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala  
20 25 30  
Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu  
35 40 45  
Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro  
50 55 60  
Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly  
65 70 75 80  
Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln  
85 90 95  
Tyr Phe Trp Glu Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu  
100 105 110  
Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly  
115 120 125  
Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser  
130 135 140  
Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro  
145 150 155 160  
Arg Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Arg Glu Lys Glu  
165 170 175  
Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Glu Glu Leu Leu Pro Val  
180 185 190  
Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu  
195 200 205  
Thr Ser Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp  
210 215 220  
Ser Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly  
225 230 235 240  
Pro Ser Leu Leu Leu Pro Ser Val Thr Pro Thr Thr Val Thr Pro Gly  
245 250 255  
Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu Pro Ala  
260 265 270  
Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala Ser Glu Glu  
275 280 285  
Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His Glu Glu Val Pro  
290 295 300

1500

09832245-042201



<211> 432  
 <212> PRT  
 <213> Homo sapiens

<400> 2238

```

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
  1              5              10              15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
      20              25              30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
      35              40              45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
      50              55              60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
      65              70              75              80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
      85              90              95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
      100             105             110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
      115             120             125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
      130             135             140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
      145             150             155             160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
      165             170             175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
      180             185             190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
      195             200             205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
      210             215             220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
      225             230             235             240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
      245             250             255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
      260             265             270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
      275             280             285

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe

```



Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser  
 130 135 140  
 Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg  
 145 150 155 160  
 Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln  
 165 170 175  
 Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser  
 180 185 190  
 Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser  
 195 200 205  
 Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met  
 210 215 220  
 Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr  
 225 230 235 240  
 Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser  
 245 250 255  
 Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu  
 260 265 270  
 Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp  
 275 280 285  
 Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe  
 290 295 300  
 Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu  
 305 310 315 320  
 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu  
 325 330 335  
 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln  
 340 345 350  
 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr  
 355 360 365  
 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu  
 370 375 380  
 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val  
 385 390 395 400  
 Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys  
 405 410 415  
 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val  
 420 425 430



Leu	Gly	Ser	Leu	Lys	Ser	His	Arg	Leu	His	His	Phe	His	Ser	Lys	Ala
50						55				60					
Leu	Gln	Leu	Pro	Val	Leu	Asp	His	Leu	Asp	Phe	Gln	Asp	Phe	Gln	Leu
65						70				75				80	
Pro	Trp	Gln	Gln	Val	Leu	Ser	Glu	Leu	Pro	Val	Ala	Pro	Ala	Phe	Gly
				85				90						95	
Gly	Gly	Ser	Ser	Val	Ala	Gly	Phe	Gly	Ser	Pro	Gly	Leu	Thr	Phe	Ser
		100						105				110			
His	Trp	Leu	Phe	Leu	Ser	His	Pro	Val	Asp	Thr	Phe	Gly	Asn	Ser	Gln
		115				120						125			
Ala	Tyr	Pro	Thr	Ser	Leu	Ser	Ala	Leu	Gln	Ala	Ser	Ile	Asn	Cys	Asn
130						135				140					
Arg															
145															

```
<210> 2243
<211> 77
<212> PRT
<213> Homo sapiens
```

```
<400> 2243
Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp
  1             5          10         15
Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Gly Arg
      20           25        30
Gln Gln Pro Gln Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn
    35           40       45
Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser
   50           55        60
Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr
  65           70       75
```

```
<210> 2244
<211> 86
<212> PRT
<213> Homo sapiens
```

```

<400> 2244
Met Tyr Lys Leu Glu Leu Ile Phe Pro Thr Ala Leu Val Leu Pro Ile
  1           5           10           15
Leu Val Asn Gly Thr Val Ile Cys Pro Leu Lys Ala Arg Asn Ser Val
      20           25           30
Ile Pro Ser Ser Ser Phe Leu Thr Ser Leu Gln Leu Thr Ile Trp Ile

```

35	40	45
Gln Pro Cys Leu Phe Leu Pro Thr Thr Thr Gly Leu Ser Ser Gly Tyr		
50	55	60
His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr		
65	70	75 80
Ala Ile Pro Gly Cys Leu		
85		
<210> 2245		
<211> 208		
<212> PRT		
<213> Homo sapiens		
<400> 2245		
Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr		
1	5	10 15
Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met		
20	25	30
Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser		
35	40	45
Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn		
50	55	60
Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp		
65	70	75 80
Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn		
85	90	95
Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu		
100	105	110
Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile		
115	120	125
Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala		
130	135	140
Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys		
145	150	155 160
Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr		
165	170	175
Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser		
180	185	190
Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile		
195	200	205



<210> 2246  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 2246  
 Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys  
           1                  5                  10                  15  
 Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu  
                   20                  25                  30  
 Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly  
                   35                  40                  45  
 Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala  
           50                  55                  60  
 Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro  
           65                  70                  75                  80  
 Gly Ala Ser Gly Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys  
                   85                  90                  95  
 Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu  
                   100                  105                  110  
 Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg  
           115                  120                  125  
 Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser  
           130                  135                  140  
 Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr  
           145                  150                  155                  160  
 Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu  
                   165                  170                  175  
 Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln  
                   180                  185                  190  
 Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly  
           195                  200                  205  
 Ser Thr Ser Leu Ala Ser His  
           210                  215

<210> 2247  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 2247  
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn



Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser  
145 150 155 160

Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln  
165 170 175

Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp  
180 185 190

Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe  
195 200 205

Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe  
210 215 220

Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His  
225 230 235 240

Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala  
245 250 255

Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr  
260 265 270

Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn  
275 280 285

Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu  
290 295 300

Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu  
305 310 315 320

Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys  
325 330 335

Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His  
340 345 350

Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val  
355 360

<210> 2249  
<211> 85  
<212> PRT  
<213> Homo sapiens

<400> 2249  
Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Phe Pro Leu Ser  
1 5 10 15

Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser  
20 25 30

Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys  
35 40 45



[illegible]

1512

Asn Tyr Arg Arg Phe Leu Glu Leu Lys Phe Gly Pro Gly Val Ile Glu  
 325 330 335

Asn Pro Gln Tyr Pro Asn Pro Ala Leu Leu Ser Leu Thr Gly Ser Gly  
 340 345 350

<210> 2252  
 <211> 448  
 <212> PRT  
 <213> Homo sapiens

<400> 2252  
 Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Leu Pro  
 1 5 10 15

Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala  
 20 25 30

Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala  
 35 40 45

Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu  
 50 55 60

Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His  
 65 70 75 80

Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Ala Asn  
 85 90 95

Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu  
 100 105 110

Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg  
 115 120 125

Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala  
 130 135 140

Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu  
 145 150 155 160

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser  
 165 170 175

Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile  
 180 185 190

Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val  
 195 200 205

Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala  
 210 215 220

Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr  
 225 230 235 240

Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr  
 245 250 255

Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Leu Gln  
 260 265 270

Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp  
 275 280 285

Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val  
 290 295 300

Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu  
 305 310 315 320

Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg  
 325 330 335

Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe  
 340 345 350

Gln Ser Leu Phe Ser Leu Asp Val Val Val Asn Leu Arg Leu Gln Leu  
 355 360 365

Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp  
 370 375 380

Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp  
 385 390 395 400

Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp  
 405 410 415

His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val  
 420 425 430

Asn Leu His Tyr Val Pro Leu Arg Ser Leu Ser Met Arg Ala Thr Trp  
 435 440 445

<210> 2253  
 <211> 183  
 <212> PRT  
 <213> Homo sapiens

<400> 2253  
 Met Glu Pro Glu Glu Gly Thr Pro Leu Trp Arg Leu Gln Lys Leu Pro  
 1 5 10 15

Ala Glu Leu Gly Pro Gln Leu Leu His Lys Ile Ile Asp Gly Ile Cys  
 20 25 30

Gly Arg Ala Tyr Pro Val Tyr Gln Asp Tyr His Thr Val Trp Glu Ser





Parameter	1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2	
-----------	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	---	--

Met Leu Phe His Tyr Asp Trp Ile Ser Ile Pro Leu Val Tyr Thr Gln  
1 5 10 15

Arg Gln Phe Val Glu Pro Glu Ala Gly Ala Ala Lys Pro Gln Lys Leu  
35 40 45

Leu Lys Pro Gly Gln Glu Pro Ala Pro Ala Leu Gly Asp Pro Asp Met  
50 55 60

Tyr Val Pro Leu Thr Thr Leu Leu Gln Phe Phe Phe Tyr Ala Gly Trp  
65 70 75 80

Leu Lys Val Ala Glu Gln Ile Ile Asn Pro Phe Gly Glu Asp Asp Asp  
85 90 95

Asp Phe Glu Thr Asn Gln Leu Ile Asp Arg Asn Leu Gln Val Ser Leu  
100 105 110

Leu Ser Val Asp Glu Met Tyr Gln Asn Leu Pro Pro Ala Glu Lys Asp  
115 120 125

Gln Tyr Trp Asp Glu Asp Gln Pro Gln Pro Pro Tyr Thr Val Ala Thr  
130 135 140

Ala Ala Glu Ser Leu Arg Pro Ser Phe Leu Gly Ser Thr Phe Asn Leu  
145 150 155 160

Arg Met Ser Asp Asp Pro Glu Gln Ser Leu Gln Val Glu Ala Ser Pro  
165 170 175

Gly Ser Gly Arg Pro Ala Pro Ala Ala Gln Thr Pro Leu Leu Gly Arg  
180 185 190

Phe Leu Gly Val Gly Ala Pro Ser Pro Ala Ile Ser Leu Arg Asn Phe  
195 200 205

Gly Arg Val Arg Gly Thr Pro Arg Pro Pro His Leu Leu Arg Phe Arg  
210 215 220

Ala Glu Glu Gly Gly Asp Pro Glu Ala Ala Ala Arg Ile Glu Glu Glu  
225 230 235 240

Ser Ala Glu Ser Gly Asp Glu Ala Leu Glu Pro  
245 250

1516

<211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 2256  
 Met Arg Pro Gly Lys Lys Val Leu Val Met Gly Ile Val Asp Leu Asn  
   1                  5                  10                  15  
 Pro Glu Ser Phe Ala Ile Ser Leu Thr Cys Gly Asp Ser Glu Asp Pro  
                   20                  25                  30  
 Pro Ala Asp Val Ala Ile Glu Leu Lys Ala Val Phe Thr Asp Arg Gln  
                   35                  40                  45  
 Leu Leu Arg Asn Ser Cys Ile Ser Gly Glu Arg Gly Glu Glu Gln Ser  
   50                  55                  60  
 Ala Ile Pro Tyr Phe Pro Phe Ile Pro Asp Gln Pro Phe Arg Val Glu  
   65                  70                  75                  80  
 Ile Leu Cys Glu His Pro Arg Phe Arg Val Phe Val Asp Gly His Gln  
                   85                  90                  95  
 Leu Phe Asp Phe Tyr His Arg Ile Gln Thr Leu Ser Ala Ile Asp Thr  
                   100                  105                  110  
 Ile Lys Ile Asn Gly Asp Leu Gln Ile Thr Lys Leu Gly  
                   115                  120                  125

<210> 2257  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 2257  
 Met Ile Ser Ile His Asn Glu Glu Glu Asn Ala Phe Ile Leu Asp Thr  
   1                  5                  10                  15  
 Leu Lys Lys Gln Trp Lys Gly Pro Asp Asp Ile Leu Leu Gly Met Phe  
                   20                  25                  30  
 Tyr Asp Thr Asp Asp Ala Ser Phe Lys Trp Phe Asp Asn Ser Asn Met  
                   35                  40                  45  
 Thr Phe Asp Lys Trp Thr Asp Gln Asp Asp Asp Glu Asp Leu Val Asp  
   50                  55                  60  
 Thr Cys Ala Phe Leu His Ile Lys Thr Gly Glu Trp Lys Lys Gly Asn  
   65                  70                  75                  80  
 Cys Glu Val Ser Ser Val Glu Gly Thr Leu Cys Lys Thr Ala Ile Pro  
                   85                  90                  95  
 Tyr Lys Arg Lys Tyr Leu Ser Asp Asn His Ile Leu Ile Ser Ala Leu  
                   100                  105                  110  
 Val Ile Ala Ser Thr Val Ile Leu Thr Val Leu Gly Ala Ile Ile Trp  
                   115                  120                  125

Phe Leu Tyr Lys Lys His Ser Asp Ser Arg Phe Thr Thr Val Phe Ser  
 130 135 140

Thr Ala Pro Gln Ser Pro Tyr Asn Glu Asp Cys Val Leu Val Val Gly  
 145 150 155 160

Glu Glu Asn Glu Tyr Pro Val Gln Phe Asp  
 165 170

<210> 2258

<211> 595

<212> PRT

<213> Homo sapiens

<400> 2258

Met Leu Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Cys Gly Arg Val  
 1 5 10 15

Gly Ala Lys Glu Gln Lys Asp Tyr Leu Leu Thr Met Gln Lys Ser Val  
 20 25 30

Thr Val Gln Glu Gly Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr  
 35 40 45

Pro Gln Asn Gly Trp Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe  
 50 55 60

Arg Ala Gly Asp His Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn  
 65 70 75 80

Pro Ala Arg Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu  
 85 90 95

Gly Asp Pro Gln Asn Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg  
 100 105 110

Glu Ser Asp Ala Gly Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met  
 115 120 125

Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser  
 130 135 140

Gln Asp Leu Leu Ser Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr  
 145 150 155 160

Val Gln Glu Gly Leu Cys Val Ser Val Pro Cys Ser Val Leu Tyr Pro  
 165 170 175

His Tyr Asn Trp Thr Ala Ser Ser Pro Val Tyr Gly Ser Trp Phe Lys  
 180 185 190

Glu Gly Ala Asp Ile Pro Trp Asp Ile Pro Val Ala Thr Asn Thr Pro  
 195 200 205

Ser Gly Lys Val Gln Glu Asp Thr His Gly Arg Phe Leu Leu Leu Gly  
 210 215 220





210	215	220
Asp Asn Pro Leu Leu Val Val Arg Pro Pro Gly Gly Glu Pro Ile Trp		
225	230	235 240
Ile Pro Phe Ala Phe Lys His Asp Pro Ser Tyr Thr Asp Cys His Gly		
	245	250 255
Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp		
	260	265 270
Ser Leu		

<210> 2260  
 <211> 468  
 <212> PRT  
 <213> Homo sapiens

<400> 2260

Met Pro Ala Leu His Thr Leu Asn Leu Asp His Asn Leu Ile Asp Ala		
1	5	10 15
Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp		
	20	25 30
Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser		
	35	40 45
Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe		
	50	55 60
Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg		
	65	70 75 80
Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu		
	85	90 95
Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu		
	100	105 110
Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly		
	115	120 125
Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr		
	130	135 140
Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg		
	145	150 155 160
Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala		
	165	170 175
Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu		
	180	185 190
Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly		
	195	200 205

[illegible]

```
<210> 2261
<211> 86
<212> PRT
<213> Homo sapiens
```





Val Cys Ala Lys Asn Arg Ala Ala Arg Val Arg Val Ser Lys Gly Asp  
35 40 45

Lys Pro Val Thr Tyr Glu Glu Ala His Ala Pro His Tyr Ile Ala His  
50 55 60

Arg Lys Gly Trp Leu Ser Leu His Thr Gly Asn Leu Asp Gly Glu Asp  
65 70 75 80

His Ala Ala Glu Arg Thr Val Glu Asp Val Phe Leu Arg Lys Phe Met  
85 90 95

Trp Gly Thr Phe Pro Gly Cys Leu Ala Asp Gln Leu Val Leu Lys Arg  
100 105 110

Arg Gly Asn Gln Leu Glu Ile Cys Ala Val Val Leu Arg Gln Leu Ser  
115 120 125

Pro His Lys Tyr Tyr Phe Leu Val Gly Tyr Ser Glu Thr Leu Leu Ser  
130 135 140

Tyr Phe Tyr Lys Cys Pro Val Arg Leu His Leu Gln Thr Val Pro Ser  
145 150 155 160

Lys Val Val Tyr Lys Tyr Leu  
165

<210> 2264

<211> 203

<212> PRT

<213> Homo sapiens

<400> 2264

Met Ala Arg Pro Arg Pro Arg Glu Tyr Lys Ala Gly Asp Leu Val Phe  
1 5 10 15

Ala Lys Met Lys Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Glu Leu  
20 25 30

Pro Glu Gly Ala Val Lys Pro Pro Ala Asn Lys Tyr Pro Ile Phe Phe  
35 40 45

Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro  
50 55 60

Tyr Lys Glu Tyr Lys Asp Lys Phe Gly Lys Ser Asn Lys Arg Lys Gly  
65 70 75 80

Phe Asn Glu Gly Leu Trp Glu Ile Glu Asn Asn Pro Gly Val Lys Phe  
85 90 95

Thr Gly Tyr Gln Ala Ile Gln Gln Gln Ser Ser Ser Glu Thr Glu Gly  
100 105 110

Glu Gly Gly Asn Thr Ala Asp Ala Ser Ser Glu Glu Glu Gly Asp Arg  
115 120 125







His	Phe	Asn	Met	Phe	Thr	Gly	Lys	Phe	Tyr	Cys	Tyr	Val	Pro	Gly	Leu
			180					185					190		
Tyr	Phe	Phe	Ser	Leu	Asn	Val	His	Thr	Trp	Asn	Gln	Lys	Glu	Thr	Tyr
		195					200					205			
Leu	His	Ile	Met	Lys	Asn	Glu	Glu	Glu	Val	Ala	Ile	Leu	Phe	Ala	Gln
	210					215					220				
Val	Gly	Asp	Arg	Ser	Ile	Met	Gln	Ser	Gln	Ser	Leu	Met	Leu	Glu	Leu
225					230					235					240
Arg	Glu	Gln	Asp	Gln	Val	Trp	Val	Arg	Leu	Tyr	Lys	Gly	Glu	Arg	Glu
				245					250					255	
Asn	Ala	Ile	Phe	Ser	Glu	Glu	Leu	Asp	Thr	Tyr	Ile	Thr	Phe	Ser	Gly
			260					265					270		
Tyr	Leu	Val	Lys	His	Ala	Thr	Glu	Pro							
		275					280								

102740 542660